

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claims 1-18 (canceled).

19. (previously presented) A digital radio communication system for multi-applications comprising:

a base station; and

a plurality of mobile stations,

wherein the mobile stations send the base station signal data of radio channel assignment request including a code representing an application to be offered over a radio communication channel;

wherein the base station comprises:

means of distinguishing the priority of the application, based on the code representing the application included in said signal data of radio channel assignment request sent from the mobile stations, and

means of assigning one radio communication channel or a plurality of channels to the mobile stations, based on said priority, according to said signal data of radio channel assignment request sent from the mobile stations,

wherein at least either said base station or each mobile station comprises a function of measuring the radio communication quality of the channel therebetween;

wherein the base station further comprises:

means to implement that if predetermined radio communication quality is not attained in a radio communication channel to be used for a higher

priority application, in addition to the pre-assigned channel, a new channels are channel is reassigned to the mobile station using that channel so that same contents will be transmitted over a plurality of channels in for a regular period,

wherein the system comprises a means to implement that in a specific application service area constituted of two or more contiguous cells, different settings of the radio channel assignment priority of the application are to be assigned to the cells, according to the cell position along the direction in which mobile stations normally move.

Claim 20 (canceled).

21. (previously presented) A digital radio communication system for multi-applications comprising:

a base station; and

a plurality of mobile stations,

wherein the mobile stations send the base station signal data of radio channel assignment request including a code representing an application to be offered over a radio communication channel,

wherein the base station comprises:

means of distinguishing the priority of the application, based on the code representing the application included in said signal data of radio channel assignment request sent from the mobile stations, and

means of assigning one radio communication channel or a plurality of channels to the mobile stations, based on said priority, according to said signal data of radio channel assignment request sent from the mobile stations,

wherein at least either said base station or each mobile station comprises a function of measuring the radio communication quality of the channel therebetween;

wherein the base station further comprises:

means to implement that if predetermined radio communication quality is not attained in a radio communication channel to be used for a higher priority application, in addition to the pre-assigned channel, a new channel is reassigned to the mobile station using that channel so that same contents will be transmitted over a plurality of channels in for a regular period,

wherein said radio communication channels are provided in time slots by time division, and

wherein the system comprises means to implement that in a specific application service area constituted of two or more contiguous cells, different settings of the radio channel assignment priority of the application are to be assigned to the cells, according to the cell position along the direction in which mobile stations normally move.